

MATERIAL SAFETY DATA SHEET

STEEL BLUE DX-100

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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATINGS:

HEALTH: 2+
FLAMMABILITY: 3
REACTIVITY: 1

DYTSB

REVISED: December 20, 1990

SECTION 1. PRODUCT IDENTITY

TRADENAME: STEEL BLUE DX-100
CHEMICAL FAMILY: Solvent based dye.

OTHER PRODUCT INFORMATION: Brush on layout fluid.

SECTION 2. HAZARDOUS INGREDIENTS

INGREDIENT(S)	WEIGHT PCT.	CAS NO.	TLV-TWA1,2	Notes
Denatured ethyl alcohol	40-60	64175	1000 ppm	
Moderate eye irritant; severe skin irritant; flammable				
n-Butyl acetate	30-60	123864	150 ppm	
Moderate skin irritant; severe eye irritant; flammable				
n-Butyl alcohol	1-5	71363	50 ppm	TC
Moderate skin irritant; severe eye irritant; flammable				
Cellulose, nitrate	1-5	9004700	n/e	
Flammable				
Isopropyl alcohol	1-5	67630	n/e	
Flammable; skin and eye irritant				

- "TLV" means the Threshold Limit Value exposure (8-hour time-weighted average, unless otherwise noted) established by ACGIH.
- "OSHA PEL" refers to the Permissible Exposure Limits for airborne contaminants as specified in 29 CFR 1900.1000.
- "N/E" indicates that neither TLV nor OSHA Permissible Exposure Limit has been established.

NOTES: A1--human carcinogen. A2--suspect carcinogen. C--ceiling limit (not a TWA). D--the TLV applies to dusts; this ingredient is not a dust as sold in our product. S--absorption through skin may be a significant route of exposure. "TC" indicates a "Toxic Chemical" subject to the reporting requirements of SARA Section 313 (40 CFR Sec. 372).

SECTION 3. PHYSICAL PROPERTIES

BOILING POINT (F): 160 VAPOR DENSITY (Air=1): >1 EVAPORATION RATE (BuAc=1): >1
MELTING POINT (F): n/d SPECIFIC GRAVITY: .86 SOLUBILITY IN WATER: Appreciable
PERCENT SOLIDS BY WEIGHT: <5 VAPOR PRESSURE (mmHg): 36 at 68 F
PH (5% by weight in water): n/d APPEARANCE AND ODOR: Intense blue liquid with sweet solvent odor.

VOLATILE ORGANIC COMPOUNDS (VOC): 6.8 lbs/gal (EPA Reference Method 24)

NOTE: "n/d" = "not determined".

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 57 F; METHOD: TCC EXPLOSIVE LIMITS IN AIR: Lower--1.4; Upper--11.2
EXTINGUISHING MEDIA: Water CO2 Dry chemical Foam Alcohol foam
no yes yes yes no

SPECIAL FIREFIGHTING PROCEDURES: Fire fighters should wear self contained breathing apparatus. Water may be used to cool fire exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source.

SECTION 5. HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES--

EYES: Flush with water for 15 minutes. Contact a physician.
SKIN: Wash affected area with soap and water. If irritation persists contact a physician.
INHALATION: Remove patient to fresh air. If breathing is difficult, administer oxygen.
INGESTION: Do not induce vomiting. If vomiting occurs, keep patient's head below hips. Give plenty of water or milk. Call a physician.

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SECTION 5. HEALTH HAZARD DATA (cont'd)

TOXICITY DATA--Oral LD50 (rat): In mg/kg: 7060 (EtOH); 14000 (BuAc); 790 (BuOH); 5840 (IsoPr)
Dermal LD50 (rabbit): In mg/kg: 3400 (BuOH); 13000 (Isopropyl)
Inhalation LC50 (rat): 8000 ppm (BuAc); Exposure time: 4 hours

SYMPTOMS OF ACUTE OVEREXPOSURE--

EYES: Moderate irritant
SKIN: Moderate irritant
INHALATION: High concentrations of vapors may produce irritation of the respiratory tract, headache, dizziness, and nausea.
INGESTION: Similar to inhalation.

EFFECTS OF CHRONIC OVEREXPOSURE: Prolonged repeated overexposure to this product may lead to skin sensitization or dermatitis.

MEDICAL CONDITIONS WHICH EXPOSURE MAY AGGRAVATE: Respiratory conditions; skin disorders.

CARCINOGENICITY--OSHA regulated? no
National Toxicology Program? no
Ingredient(s) listed: None
ACGIH? no
International Agency for Research on Cancer? no

SECTION 6. REACTIVITY DATA

STABILITY: Chemically stable
Conditions to avoid: Heat, sparks, and open flames.
Materials to avoid: Strong oxidizing agents.
Hazardous decomposition products: Oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: will not occur.
Conditions to avoid: None

SECTION 7. SPILL OR LEAK PROCEDURES

SPILL CONTROL: Remove all ignition sources and ventilate the area. Wear personal protective equipment. Use absorbent material such as sand or vermiculite. Place waste in sealed containers and remove to a federal or state approved disposal facility.

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations.

Applicable CERCLA/RCRA Hazardous Waste Codes: D001 (ignitability); U031 (Butyl alcohol)
Reportable Quantity under CERCLA, in pounds: 100

SECTION 8. PROTECTIVE EQUIPMENT

EYES: Safety glasses or goggles.
SKIN: Chemical resistant rubber gloves and long sleeved clothing.
RESPIRATORY: None required for normal use with adequate ventilation. In poorly ventilated areas, use NIOSH approved organic vapor respirator.
VENTILATION: General mechanical ventilation is adequate for normal use. Local exhaust may be required if vapor concentrations above the TLV are generated.

SECTION 9. PRECAUTIONS FOR STORAGE, HANDLING, ETC.

---Keep away from heat, sparks, and open flames.
---Use with adequate ventilation.

PROPER SHIPPING NAME: Paint (Containers < 1 pint are ORM-D) 1263
D.O.T. HAZARD CLASS: Flammable liquid

ITW Devcon bases the information and recommendations in this document on data believed to be correct. No warranty of any kind, however, is made as to the information in this document.

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